

# The Archaeology of Geological Catastrophes (Geological Society Special Publication)

W. J. McGuire, D. R. Griffiths, P. L. Hancock, I. Stewart



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Archaeology is playing an increasingly important role by unravelling the details of geological catastrophes during the past few millennia. The collection of papers that make up this volume address established and innovative archaeological methods and techniques, and their application to examining the impacts of earthquakes and volcanic eruptions. There are case studies from around the world including Europe, Africa, South East Asia, Central and North America. There is also a strong focus on the Minoan eruption of Santorini and the AD eruption of Vesuvius. Readership: Academic researchers and educators in Archaeology, Palaeoseismology and Volcanology. Postgraduates in the aforementioned fields. Contents: Creation and destruction of travertine monumental stone by earthquake faulting at Hierapolis, Turkey Uses of volcanic products in antiquity The Advent of Archaeoseismology in the Mediterranean A critical reappraisal of classical and archaeological evidence for Archaic-Classical earthquakes in the Atalanti region, Central Mainland Greece Aims and methods in Territorial Archaeology: possible clues to a strong IV century AD earthquake in the Straits of Messina (Southern Italy Santorini (Greece) before the Minoan Eruption: a reconstruction of the ring-island, natural resources and clay deposits from the Akrotiri Excavation The eruption of the Santorini Volcano and its effect on Minoan Crete Late Minoan I B marine ware, the marineenvironment of the Aegean, and the Bronze Age eruption of the Thera Volcano Ground-Penetrating Radar mapping of Minoan volcanic deposits and the Late Bronze Age paleotopography, Thera, Greece Precursory phenomena and destructive events related to the Late Bronze Age Minoan (Thera, Greece) and 79AD (Vesuvius, Italy) Plinian eruptions. Inferences from the stratigraphy in the archaeological areas A GIS for the archaeological area of Pompeii Apulian Bronze Age pottery as a long distance indicator of the Avellino Pumice Eruption (Vesuvius, Italy) Human response to Etna Volcano during the classical period The Johnston-Lavis Collection: a unique record of Italian volcanism The Archaeology of a Plinian Eruption of the Popocatépetl Volcano Timing of the prehistoric eruption of Xitle Volcano and the abandonment of Cuicuilco Pyramid, Southern Valley of Mexico Volcanic disasters and cultural discontinuities in Holocene Time in West New Britain, Papua New Guinea Tephrochronology of the Brooks River Archaeological District, Katmai National park and Preserve, Alaska: What can and cannot be done with Tephra deposits Endemic stress, farming communities and the influence of Icelandic volcanic eruptions in the Scottish Highlands Comparison and cross-checking of historic, archaeological and geological evidence for the location and type of historical and sub-historical eruptions of multiple-vent oceanic island volcanoes A fire spitting volcano in our dear Germany: documentary evidence for a low-intensity volcanic eruption of the Gleichberg in 1783? Volcanic soils: their nature and significance for archaeology The use of volcanicalstic material in Roman hydraulic concretes: a brief review Olmec stone sculpture: selection criteria for basalt Seismic and volcano hazards affecting the vulnerability of the Sanaa area of Yemen Archaeological, geomorphological and geological evidence for a major earthquake at Sagalassos (SW Turkey) around the middle of the seventh century Fault pattern of Nisyros Island volcano (Aegean Sea, Greece): structural, coastal and archaeological evidence The geological origins of the Oracle at Delphi, Greece

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